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NOTICE OF ALLOWANCE AND FEE(S) DUE

22879

7590

06/24/2009

HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400

EXAMINER				
KOVALICK, VINCENT E				
ART UNIT	PAPER NUMBER			
2629				

DATE MAILED: 06/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830,216	04/23/2004	Parthasarathy Ranganathan	200400352-1	9361

TITLE OF INVENTION: OPTIMIZING LIFETIME OF A DISPLAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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FORT COLLIN	S, CO 80527-2400							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIR	ST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/830,216 FITLE OF INVENTION	04/23/2004 : OPTIMIZING LIFETI	ME OF A DISPLA		thasarathy Ranganathai	1		200400352-1	9361
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nonprovisional	NO	\$1510		\$300	\$0		\$1810	09/24/2009
EXAM	INER	ART UNIT		CLASS-SUBCLASS				
KOVALICK,	VINCENT E	2629	•	345-214000				
Address form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. ASSIGNEE NAME A PLEASE NOTE: Unl	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspond "Indication form led. Use of a Cust A TO BE PRINTE	omer D ON THE signee dat n is NOT a	a will appear on the p	3 registered patenticly, e firm (having as a gent) and the namerneys or agents. If a printed. be) atent. If an assigneassignment.	membees of up	er a 2ee is 3entified below, the d	ocument has been filed for
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This collection of informan application. Confident submitting the completed his form and/or suggesti	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but	CFR 1.311. The inf U.S.C. 122 and 3 USPTO. Time wrden, should be se	ormation is 7 CFR 1.1- ill vary de nt to the C	s required to obtain or r 4. This collection is est pending upon the indiv hief Information Office	etain a benefit by the imated to take 12 ridual case. Any corr, U.S. Patent and	he publi minutes mments Tradem	ic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O.

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	3404 E. HARMONY I		ART UNIT	PAPER NUMBER
INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			2629 DATE MAILED: 06/24/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 854 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 854 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/830,216	RANGANATHAN ET AL.
Notice of Allowability	Examiner	Art Unit
	VINCE E. KOVALICK	2629
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>appliacnt's amendme</u>		
2. The allowed claim(s) is/are <u>1, 2, 4, 6-22, 25-27 and 30-35</u>	<u>(re-numered 1-29)</u> .	
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	be been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te



Application No.

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DETAILED ACTION

Response to Amendment

1. This Office Action is in response to Applicant's Amendment dated November 13, 2008 in response to USPTO Office Action dated August 13, 2008.

The cancellation of claims 3, 5, 23, 24, 28 and 29; the amendments to claims 1, 20, 25, 26, 30, 31 and 33-35 and the merit of Applicant's remarks relative to claims 31 and 35 are sufficient to place the application in a condition for allowance as set forth herein below.

Allowable Subject Matter

- 2. Claims 1-2, 4, 6-22, 25, 27 and 30-35 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Relative to claim 1, the major difference between the teachings of the prior at of record (Pub. No. US 2004/0178974, Miller et al.; USP 6,414,661, Shen et al. and USP, 7,176,861, Dedene et al.) and that of the instant invention is that said prior art does not teach a method of optimizing lifetime of a display, the method comprising: determining whether to control at least a portion of a display based on a lifetime metric; identifying a plurality of display control options by using a usage model in response to determining to control the at least a portion of the display; and selecting at least one of the display control options to control the display; wherein determining whether to control the display based on a lifetime metric comprises: a) comparing the lifetime metric to a threshold; and b) determining to perform the

step of identifying a plurality of display control options in response to the lifetime metric exceeding the threshold.

Regading claim 20, the major difference between the teachings of the said prior at of record and that of the instant invention is that said prior art does not teach a method comprising: determining a lifetime metric for at least a portion of a display being used using a lifetime model; determining whether to control the at least a portion of the display based on the lifetime metric; identifying at least one display control option using a usage model in response to determining to control the at least a portion of the display, profiling use of at least one of the display and one or more displays similar to the display to establish the usage model, wherein profiling comprises profiling use by a current user of the display.

Relative to claim 26, the major difference between the teachings of the said prior at of record and that of the instant invention is that said prior art does not teach an apparatus comprising: means for displaying information, the means for displaying is being used to display information; means for determining a lifetime metric associated with at least a portion of the means for displaying; means for determining whether to control the at least a portion of the means for displaying based on the lifetime metric; means for identifying a plurality of display control options operable to increase a remaining life of at least a portion of the display in response to determining to control the at least a portion of the means for displaying; usage model means for estimating usage of the means for displaying; means for evaluating the plurality of display control options using the usage model means; and means for selecting at least one of the plurality of display control options based on the evaluation.

Regading claim 31, the major difference between the teachings of the said prior at of record and that of the instant invention is that said prior art does not teach computer software embedded on a tangible computer readable storage device, computer software comprising instructions of: determining whether to control at least a portion of a display being used based Art Unit: 2629

on a lifetime metric, wherein determining whether to control at least a portion of a display includes determining to control the at least a portion of the display in response to a lifetime metric exceeding a threshold; identifying a plurality of display control options in response to determining to control the at least a portion of the display; and selecting at least one of the plurality of display control options to control the display wherein the selection includes identifying a user acceptance setting on implementing any one of the plurality of display control options.

Relative to claim 35, the major difference between the teachings of the said prior at of record and that of the instant invention is that said prior art does not teach a computer system comprising: a display in use and operable to display a visual representation of information on the display; a processor operable to determine a plurality of display control options for increasing the remaining life of the display, each control option including parameters varying the visual representation of information on the display, wherein the processor is further operable to: determine to control the display in response to a lifetime metric exceeding a threshold; identify the plurality of display control options in response to the determination to control the display; and select at least one of the plurality of display control options to control the display, wherein the selection includes identifying a user acceptance setting on implementing any one of the plurality of display control options; and a display controller operable to receive parameters for the selected at least one of the control options processor to control the visual representation of information on the display.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U. S. Patent No. 5,608,85 Ohtsuka et al.

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To Respond

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to VINCE E. KOVALICK whose telephone number is (571)272-

7669. The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bipin Shalwala/

Supervisory Patent Examiner, Art Unit 2629

/Vincent E Kovalick/

Examiner, Art Unit 2629

June 11, /V. E. K./

Examiner, Art Unit 26292009